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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,225	09/08/2003	Justin K. Brask	42P17298	2688
8791 7590 11/01/2007 BLAKELY SOKOLOFF TAYLOR & ZAFMAN 1279 OAKMEAD PARKWAY SUNNYVALE, CA 94085-4040			EXAMINER	
			DUDA, KATHLEEN	
SUNNIVALE	, CA 94083-4040	ART UNIT PAPER NUMBE		PAPER NUMBER
			1795	
			MAIL DATE	DELIVERY MODE
			11/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
		10/658,225	BRASK, JUSTIN K.			
	Office Action Summary	Examiner	Art Unit			
		Kathleen Duda	1795			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SHO WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES as ions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 18 Se	eptember 2007.				
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Dispositi	on of Claims					
4) 🖾	b)⊠ Claim(s) <u>13,14,16-18,20-25,32 and 33</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
· <u> </u>	5) Claim(s) is/are allowed.					
· —	Claim(s) <u>13,14,16-18,20-25,32 and 33</u> is/are re	ejected.				
· · · · · · · · · · · · · · · · · · ·	Claim(s) is/are objected to.	r election requirement				
8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers					
	The specification is objected to by the Examine					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the		, ,			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
_	ınder 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
a)[, ,	s have been received				
	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 					
	3. Copies of the certified copies of the prior	•••				
	application from the International Bureau		J			
* See the attached detailed Office action for a list of the certified copies not received.						
			•			
Attachment	t(s)					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da				
3) Inform	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal P				

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DETAILED ACTION

1. Claims 13, 14, 16-18, 20-25, 32 and 33 are pending in this application.

Claim Rejections - 35 USC § 112

- 2. The 35 USC 112 rejections, first and second paragraphs, of the claims made in the last office action have been overcome due to Applicant's amendments to the claims.
- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 4. Claims 32 and 33 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claims 32 and 33 have been added. These claims recite that the film is metallic and an alloy "comprised of at least two different metals". Paragraph 0023 teaches that the metal can be a "metal alloy(s)"

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with no further description of the alloy. An alloy can include one metal mixed with a nonmetal.

Claim Rejections - 35 USC § 102/103

5. The following is a quotation of the appropriate paragraphs of 35
U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 13, 14, 16-18, 20-25, 32 and 33 are rejected under 35
- U.S.C. 102(e) as anticipated by or, in the alternative, under 35
- U.S.C. 103(a) as obvious over Bojkov (US Patent 6,979,647).

Bojkov discloses a method for chemical etch control of noble metals in the presence of less noble metals. The removal of a first metal from the presence of a second metal is accomplished by placing the first and second metals in an oxidizing etchant solution containing a chelating agent which selectively forms a complex with the first metal (column 1, line 64 to column 2, line 6). Resist layer 201 defines the opening which exposes the metal seed layer (column 3, lines 63-67). The wafers are immersed in an oxidizing etchant solution which is usually a highly acidic bath. Chelating agents are added to the solution which binds the seed ions into chemical complexes. Dependent on the metal used in the seed layer one can select chelating agents specific for certain metals (column 5, lines 13-67). It would have been obvious to one of ordinary skill in the art to have used more than one chelating agent if more than one metal is present because Bojkov teaches that the chelating agents are chosen dependent on the metal.

Applicant argues that Bojkov only teaches a single chelating agent.

Bojkov refers to chelating agents in several portions of the specification including column 5, lines 27-30, lines 45-48 and column 6, lines 42-45.

Bojkov teaches that the chelating agents are chosen specific to the metals to be etched. Since Bojkov teaches metal alloys it would have been obvious that more than one chelating agent could be used depending on the metals being used.

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Applicant argues that it is improper to rely on Bojkov since it does not teach the second chelating agent. It is the examiner's position that Bojkov does teach that two chelating agents can be used in the process. The specification of this application teaches one chelating agent and then in paragraphs 0031 and 0033 mention more than one chelating agent. This appears to be similar to the teachings of Bojkov which mentions single chelating agents in some areas of the specification and then chelating agents in other areas.

Double Patenting

7. The obviousness-type double patenting rejections made in the last office action have been overcome with the approval of the terminal disclaimer filed on August 27, 2007.

Conclusion

8. Any inquiry concerning this communication should be directed to Examiner K. Duda at (571) 272-1383. Official FAX communications should be sent to (571) 273-8300.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff, can be reached at 571-272-1385.

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Information regarding the status of an application may be obtained from the Patent Application Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kathleen Duda Primary Examiner Art Unit 1795